

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-418  
Relating to Certification of New Motor Vehicles

CHRYSLER CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Chrysler Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: XCRXT0150120 Displacement: 2.5 Liters (150 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converter  
Heated Oxygen Sensors (two)  
Sequential Multiport Fuel Injection  
Warm Up Oxidation Catalytic Converter

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
0-3750	50,000	0.125	3.4	0.4	0.015	10.0
	100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
0-3750	50,000	0.060	1.8	0.1	0.001	4.1
	100,000	0.068	2.1	0.1	0.001	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 8<sup>th</sup> day of July 1998.

A handwritten signature in cursive script, appearing to read "R. B. Summerfield".

R. B. Summerfield, Chief  
Mobile Source Operations Division

1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # A-9-418  
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Manufacturer: Chrysler Corporation Exh Eng Fam: XCRXT0150120 Evap Fam: XCRXE0101G2S  
All Eng Codes in Eng Fam: CA X 49S        50S        AB965        ORVR: YES        NO X  
Exh Std: CA Tier-1        TLEV X LEV        ULEV        SULEV       ; US EPA Tier-1         
Veh Class(es): PC        LDT1 X LDT2 X MDV1        MDV2        MDV3        MDV4        MDV5         
Single Cert Std for Multi-Class Eng Fam: LDT1 (Specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
Fuel Type(s): Dedicated X Flex-Fuel        Dual-Fuel        Bi-Level        Gasoline X Diesel         
CNG        LNG        LPG        M85        Other (specify)         
Exh. Emis Test Fuel(s): Indo        CBG X CNG        LPG        M85        Other(specify)         
Diesel: 13 CCR 2282        or 40 CFR 86.113-90        or 40 CFR 86.113-94         
Evaporative Emission Test Procedure: California        Federal X  
Service Accum: Std AMA        Mod AMA        Mfr ADP X Other (Specify)         
NMOG Test Procedure: N/A        Std        Equiv X R/L Test Proce: SHED        Pt Source X  
Engine Configuration: I-4 Displacement:        / 2.5 Liters        / 150 Cubic Inches  
Valves per Cylinder: 2 Rated HP: 120/120/125 @ 5200/5400/5400 RPM  
Engine: Front X Mid        Rear        Drive: FWD        RWD X 4WD-FT        4WD-PT X  
Exhaust ECS (eg., EGR, MFI, TC, CAC): WUOC, TWC, H02S(2), OBD II, SFI  
(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type M5 A4	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Converter Part No.
CA-100 (CA)	XJTL72 XJTL74	A3	3375	S E E	56041485AC	None	52019480AF 52019435AB
CA-300 (CA)	TJJL77		3625	A T T A C H E D	56041462AC		52101129AA 52019435AB
CM-100 (CA)	XJTL72 XJTL74	M5	3375		56041481AC		52019480AF 52019435AB
	XJJL72		3500				
	XJJL74		3625				
CM-300 (CA)	TJJL77		3625		56041458AC		52101129AA 52019435AB
CM-500 (CA)	AN1L61 AN1L62		3750		56040027AA 56040027AB		52103269AA 52021007AB
	AN1L31		3875				

Date Issued: 04/30/98

Revisions:

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER  
Engine Family: XCRX10150120  
Evaporative Fam: XCRXED0101G2S  
Certificate #:

Model ID	Car Line	California Sales
XJTL72	Cherokee 2WD	YES
XJTL74	Cherokee 2WD	YES
XJTL72	Cherokee 4WD	YES
XJTL74	Cherokee 4WD	YES
AN1L31	Dakota Pickup 2WD	YES
AN1L61	Dakota Pickup 2WD	YES
AN1L62	Dakota Pickup 2WD	YES
TJL77	Wrangler 4WD	YES

Rated HP

XJ - 125 @ 5400  
AN - 120 @ 5200  
TJ - 120 @ 5400

Model Codes

AN 1 L 31

1st digit: 2nd digit:  
3=Club Cab 1=119" or 130.9" wb  
6=Regular Cab 2=123.9" wb

Price Class

Model:  
1=2 wheel drive  
5=4 wheel drive

Body Code:  
Dakota Pickup

Model Codes

XJ J L 74

Body Style  
72=2 door  
74=4 door  
77=open

Trim Level  
L=Covers all trim levels

Steering and Drive Line  
B=Right Hand Steering, 2 wd-rear  
U=Right Hand Steering, 4 wd  
J=Left Hand Steering, 4 wd  
T=Left Hand Steering, 2 wd-rear

Car Line

XJ=Cherokee  
YJ=Wrangler  
ZJ=Grand Cherokee

TJ=Wrangler(after 1996)  
WJ=Grand Cherokee(after 1998)

REPORT DATE: 04/30/98

ATTACHMENT TO SDS PAGE 1  
OF EXECUTIVE ORDER A-9-418

1999  
XCRXT0150120

Chrysler Corporation  
Family Tire Usage

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A C	MKT GVW	LVW TYPE	ETW	TIRE DESCRIPTION USE YR COD MFG OPT	COAST DOWN TIME	DYNO HP	TIRE PRES F R	COLD CO ELECTRIC DYNO COEFFICIENTS				
											TARGET A (LINE 1 IS 20 DEG	B COEFFS,	C LINE 2 IS 50 DEG	SET A WHEN NEEDED)	
ANIL31	EPE	DDK	RA	Y	C	3875	STD 99 TMD TZA	14.61	12.7	35 35	39.53		0.03456		
											35.94		0.03142		
							OPT 99 TME TZA	14.61	12.7	35 35	39.53		0.03456		
											35.94		0.03142		
							OPT 99 TS1 TZA	13.74	13.2	35 35	38.15		0.03856		
											34.68		0.03505		
ANIL61	EPE	DDK	RA	Y	C	3750	STD 99 TMD TZA	14.40	12.4	35 35	38.15		0.03856		
											34.68		0.03505		
							OPT 99 TME TZA	13.74	13.2	35 35	34.68		0.03505		
											43.70		0.04084		
							OPT 99 TS2 TZA	12.74	13.0	35 35	39.73		0.03713		
											37.14		0.03436		
ANIL62	EPE	DDK	RA	Y	C	3750	STD 99 TMD TZA	14.40	12.4	35 35	37.14		0.03124		
											33.76		0.03436		
							OPT 99 TME TZA	14.40	12.4	35 35	33.76		0.03124		
											35.82		0.03856		
							OPT 99 TS1 TZA	13.51	12.9	35 35	32.57		0.03505		
											35.82		0.03856		
TJUL77	EPE	DDQ	4W	Y	C	3625	STD 99 TMD TZA	13.51	12.9	35 35	32.57		0.03505		
											41.10		0.04084		
							OPT 99 TME TZA	12.54	12.7	35 35	37.36		0.03713		
											37.14		0.03436		
							OPT 99 TS2 TZA	14.40	12.4	35 35	33.76		0.03124		
											37.14		0.03436		
TJUL77	EPE	DDQ	4W	Y	C	3625	STD 99 TMD TZA	13.51	12.9	35 35	33.76		0.03124		
											35.82		0.03856		
							OPT 99 TME TZA	13.51	12.9	35 35	32.57		0.03505		
											35.82		0.03856		
							OPT 99 TS2 TZA	12.54	12.7	35 35	41.10		0.04084		
											37.36		0.03713		
TJUL77	EPE	DDQ	4W	Y	C	3625	STD 99 TMD TZA	10.86	15.6	33 33	50.78		0.04401		
											46.16		0.04001		
							OPT 99 TME TZA	10.82	15.9	33 33	46.46		0.04595		
											42.23		0.04177		
							OPT 99 TME TZA VKO	11.26	15.2	33 33	42.15		0.04495		
											38.32		0.04086		
TJUL77	EPE	DDQ	4W	Y	C	3625	STD 99 TMD TZA	11.10	15.1	33 33	47.45		0.04370		
											43.14		0.03973		
							OPT 99 TME TZA	10.69	15.9	33 33	49.82		0.04551		
											45.29		0.04137		
							OPT 99 TME TZA VKO	11.04	15.3	33 33	43.58		0.04563		
											39.62		0.04148		
TJUL77	EPE	DDQ	4W	Y	C	3625	STD 99 TMD TZA	10.43	15.7	33 33	57.97		0.04401		
											52.70		0.04001		

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1999  
XCRXT0150120

Chrysler Corporation  
Family Tire Usage

LOADED VEHICLE WEIGHT

											COLD CO ELECTRIC DYNO COEFFICIENTS					
MODEL	ENG	TRANS	A	MKT	LVW	TIRE DESCRIPTION	COAST DOWN TIME	*DYNO HP	TIRE PRES F R	TARGET A	B	C	SET A	B	C	
			C	GVW	TYPE						ETW	USE YR	COD	MFG	OPT	IS
						OPT 99 TMW TZA	10.40	15.9	33 33	53.62		0.04595				
										48.74		0.04177				
						OPT 99 TMW TZA VKO	10.81	15.2	33 33	49.30		0.04495				
										44.82		0.04086				
						OPT 99 TPN TZA VKO	10.66	15.2	33 33	54.59		0.04370				
										49.62		0.03973				
						OPT 99 TRN TZA	10.27	16.0	33 33	57.01		0.04551				
										51.82		0.04137				
						OPT 99 TRN TZA VKO	10.60	15.4	33 33	50.69		0.04563				
										46.08		0.04148				
XJJL72	EPE	DDQ 4W Y 4850	C		3500	STD 99 TM6 TZA	11.68	13.8	33 33	49.25		0.03783				
										44.77		0.03439				
						OPT 99 TRL TZA	11.35	14.1	33 33	49.78		0.03930				
										45.25		0.03573				
XJJL74	EPE	DDQ 4W Y 4900	C		3625	STD 99 TM6 TZA	12.03	13.8	33 33	50.05		0.03783				
										45.50		0.03439				
						OPT 99 TRL TZA	11.69	14.1	33 33	50.58		0.03930				
										45.98		0.03573				
XJTL72	EPE	DDQ RW Y 4550	C		3375	STD 99 TM6 TZA	12.71	11.9	33 33	39.14		0.03508				
										35.58		0.03189				
						OPT 99 TRL TZA	12.46	12.4	33 33	41.56		0.03527				
										37.78		0.03206				
XJTL72	EPE	DGD RW Y 4550	C		3375	STD 99 TM6 TZA	12.19	12.0	33 33	45.03		0.03508				
										40.93		0.03189				
						OPT 99 TRL TZA	11.96	12.6	33 33	47.47		0.03527				
										43.16		0.03206				
XJTL74	EPE	DDQ RW Y 4600	C		3375	STD 99 TM6 TZA	12.71	11.9	33 33	39.14		0.03508				
										35.58		0.03189				
						OPT 99 TRL TZA	12.46	12.4	33 33	41.56		0.03527				
										37.78		0.03206				
XJTL74	EPE	DGD RW Y 4600	C		3375	STD 99 TM6 TZA	12.19	12.0	33 33	45.03		0.03508				
										40.93		0.03189				
						OPT 99 TRL TZA	11.96	12.6	33 33	47.47		0.03527				
										43.16		0.03206				

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